CLAIMS

1- A process for preparing a core-shell poly(amide-ester) microcapsule slurry comprising the following steps:

a) Dissolving at least one acyl chloride in a hydrophobic material, preferably a perfume to form an oil phase;

b) Dispersing the oil phase obtained in step a) into a water phase comprising an amino compound A to form an oil-in-water emulsion;

c) Adding to the oil-in-water emulsion obtained in step b) an amino compound B, and

d) Performing a curing step to form poly(amide-ester) microcapsule in the form of a slurry,

wherein a stabilizer is added in step a) and/or in step b),

wherein a polyol is added in step a) and/or in step b) and/or in step c).

2- The process according to claim 1, wherein the acyl chloride is chosen from the group consisting of 1,3,5-benzene tricarbonyl chloride, benzene-1,2,4-tricarbonyl trichloride, benzene-1,2,4,5-tetracarbonyl tetrachloride, cyclohexane-1,3,5-tricarbonyl trichloride, isophthalyol dichloride, diglycolyl dichloride, terphthaloyl chloride, succinic dichloride, and mixtures thereof.

3- The process according to claim 1 or claim 2, wherein the amino compound A is chosen from the group consisting of L-Lysine, L-Lysine ethyl ester, guanidine carbonate, chitosan, 3-aminopropyltriethoxysilane and mixtures thereof.

4- The process according to any one of the preceding claims, wherein the amino compound B is chosen from the group consisting of cystamine, cystamine hydrochloride, cystine, cystine hydrochloride, cystine dialkyl ester, cystine dialkyl ester hydrochloride, a xylylene diamine, 1,2-diaminocyclohexane, 1,4-diaminocyclohexane, L-lysine, L-Lysine ethyl ester, (O,O′-Bis(2-aminopropyl) polypropylene glycol-block-polyethylene glycol-block-polypropylene glycol, ethylene diamine, diethylene triamine, spermine, spermidine, polyamidoamine (PAMAM), guanidine carbonate, chitosan, tris-(2-aminoethyl)amine, 3-aminopropyltriethoxysilane, L-arginine and mixtures thereof.

5- The process according to claim 3 or claim 4, wherein the amino-compound A and the amino-compound B are different.

6- The process according to any one of the preceding claims, wherein the stabilizer is chosen from the group consisting of gum Arabic, modified starch, polyvinyl alcohol, polyvinylpyrrolidone, carboxymethylcellulose, anionic polysaccharides, acrylamide copolymer, inorganic particles, proteins and mixtures thereof.

7- The process according to any one of the preceding claims, wherein the molar ratio between the functional groups NH_2 of the amino compound B and the functional groups COCl of the acyl chloride is comprised between 0.01 and 7.5.

8- The process according to any one of the preceding claims, wherein the weight ratio between acyl chloride and the hydrophobic material is comprised between 0.02 and 0.09.

9- The process according to any one of the preceding claims, wherein the polyol is chosen from the group consisting of triethanolamine, di(trimethylolpropane), ethylene glycol, glycerol, 1,4-butanediol, 1,2-hexanediol, 1,6-hexanediol, 2-ethyl-2-(hydroxymethyl)propane-1,3-diol (trimethylolpropane, TMP), 2,2-bis(hydroxymethyl)propane-1,3-diol (pentaerythritol), 2-amino-2-ethylpropane-1,3-diol, 2-amino-2-(hydroxymethyl)propane-1,3-diol, 2,2'-azanediylbis(ethan-1-ol), 2-aminopropane-1,3-diol, 2-amino-2-methylpropane-1,3-diol, polyphenols or mixtures thereof.

10- A poly(amide-ester) core-shell microcapsule comprising:

- an oil-based core comprising a hydrophobic material, preferably a perfume, and
- a poly(amide-ester) shell comprising

- optionally a stabilizer, preferably from 0% to 75% w/w of a stabilizer,
- an acyl chloride, preferably from 10% and 90% w/w of an acyl chloride,
- an amino compound A, preferably from 5% to 50% w/w of an amino compound A ,

- an amino compound B, preferably from 1% to 40% w/w of an amino compound B, and
- a polyol, preferably from 1 to 60% w/w of a polyol,

based on the total weight of the shell.

11- A perfuming composition comprising

(i) Perfume microcapsule as defined in claim 10, wherein the hydrophobic material comprises a perfume,

(ii) At least one ingredient selected from the group consisting of a perfumery carrier and a perfumery base, and

(iii)Optionally at least one perfumery adjuvant.

12- A consumer product comprising:

- a personal care active base, and
- microcapsules as defined in claim 10 or the perfuming composition as defined in claim 11,

wherein the consumer product is in the form of a personal care composition.

13- A consumer product comprising:

- a home care or a fabric care active base, and
- microcapsules as defined in claim 10 or the perfuming composition as defined in claim 11,

wherein the consumer product is in the form of a home care or a fabric care composition.